No.....

Original/Duplicate/Triplicate
CONTRACT CERTIFICATE
(For Other Works)

Division: **BBMP / YNK**

Sub-Division: **Yelahanka Sub – Division.**

Bill Received No. Dated Cash Book Voucher No..... Dated.....

Divisional Sub Divisional
YNK-DBR No. 229
Date 22.10.16

Schedule Docket No. Head of Account Estimate Amount: **50.00** Lakhs B.R.No. :

Job Number : 001-17-000001

Name of Work : Drilling of borewell and providing water facilities in ward No-01

Name of Contractor and Full Address: **Technical Manager (West) KRIDL, BBMP, Bangalore.**

Reference to Agreement No. EE/YNK.D/ **W.O/89 /2016-17.** Date: 17-09-2016.

Certified that the measurements were taken by me on .....and recorded in Pages 102963 to 102978 of measurement Book No. 4630 and that the work is satisfactorily executed.

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

Contractor

Officer-in-charge of work

Certified that the measurement were taken by me on 24.10.16 .....and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub Division Officer

II Memorandum of Payment

1) Total value of work done or supplies made as per account within
2) Deduct amount to be held in reserve being .....percent Rs.....
3) " Balance
4) Deduct Payment:
   a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No.....
   adjusted towards cash advance recovery of
   b) Payments Now made } cost store or other material supplied. / recovery of amount creditable to this/other work / Amount paid on this bill Cheque / Cash.
5) Balance being unpaid value of work done held in reserve.
6) Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.
7) Net amount due to or from Contractor unadjustments items.
8) Advance to Contractor for materials brought to site (as detailed) within.
9) Value of Government materials supplied.

Assl. Executive Engineer
Yelahanka Sub Division
(BBMP Ynk Zn)
Yelahanka, Bangalore

1st & Final 2459897=00

Amount	
FSD	159894=00
IT	49198=00
KST	196791=00
EWF	24599=00
CBF	2459=00
T-D	432941=00
Net	2026956=00

Total amount adjusted -

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

Contractor's Signature

Received Rs..... (in words).....
.....
by cash and by adjustment of Payment as per memorandum
(in final settlement of all demands)

(For use in the Office)

Witness
1.
2.
Dated

Assistant Executive Engineer
Byatarayanapura Sub-division
KRIDL, BBMP, Bangalore

Signature of Contractor

Paid by me by Cheque No. Dated.....
Cash Rs.....
Dated.....
Initials of Officer making payment

Audited & Admitted for Rs. 2459897=00
Stamp
2026956=00 by Cheque
and Rs. 432941=00 by Cash

Asstt. Supdt.
yelahanka Division
BBMP

Exe. Engineer
yelahanka Division
BBMP

Executive Engineer

	Description of work	
1	Geophysical investigation of site for sinking borewell for supplying drinking water to the habitation either through the hand pump, MWS or P.W.S.S. by vertical electrical sounding by adopting venner or schlumbergers's method, including reconnaissance survey of geological formation, Geological investigation of existing ground water in vicinity, its quality, quantity & acceptability of the users indicating the location of site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 mtr in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site, engaging technical personal and labour required etc (P.NO-47, I.NO-9.4, PRED 12-13 SR)	Nos
2	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) (P.NO-47, I NO-9.1, PRED 12-13 SR)	Rmt
	0.00 to 50.00 Mtr	
	50.00 to 100.00 Mtr	
	100.00 to 150.00 Mtr	
	150.00 to 200.00 Mtr	
	200.00 to 250.00 Mtr	
	250.00 to 300.00 Mtr	
3	Supplying of ISI Mark 175 mm nominal bore medium black ERW casing pipe of 5mm thick black electric resistance continous welded midle steel tube material confirming to IS 1387/!993 and manufactured from hot rolled steel skelp/stripes in random length of 4 to 7 mtr both ends threaded confirming to IS 554/1985 one end(including of all taxes) (P.NO-III, I.NO-84, PRED 12-13 SR)	Rmt
4	Providing and fixing 250mm dia PVC 6 kg/sqcm pressure pipe including jointing and labur charges for laying pipes and as per specification and directions. (BWSSB SR 13-14, P.No.45 I.no.1 of sl.no.11.)	Each
5	175 mm dia M.S. Casing cap (P.NO-III, I.NO-85, PRED 12-13 SR)	Each
6	M.S. Casing pipe collars 175mm dia (P.NO-III, I.NO-86, PRED 12-13 SR)	Each
7	Supply & delivery at site brand new texmo/innoval/lubi/sabar /Atalanta/calamal/ waterman/Radha make suitable HP deep well submercible pumpset suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagesubmercible induction motor suitable for operation of 3Ph, 50Hz.380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard. Non return valve etc Complete the pump and motor shall from an integral unit with all the required fittings 15.000 HP 30 stage (P.NO-XXXXIII, I.NO-33, PWD SR 13-14) kirloscar pumps	Set
8	Providing, GI pipes confirming to IS specification of approved make with fittings such as collars bends elbows tees nipples plugs with cuts threads using white lead & threads for joints wherever necessary as per direction including all lead & lift etc,. complete 'A' grade(excluding cost of fittings)b50mm dia GI pipe (SR 13-14 PWD Page No XVII code No 509, 0154)	Rmtr
9	Providing & fixing socket GI (heavy duty collar) (Pwd SR pg xxxviii)	No
10	Supplying and drawing 3 core PVC Sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS: 8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 volts 4 sqmm of 56 strands 0.3mm dia (P.NO-535, I.NO-30 (c), BWSSB 12-13 SR)	Mtr
11	Supplying & delivery at site brand new / Essen / Lotus sunsines/Adarsh/ Gk controls best indigenous make combine energy meter-cum-control panel board unit of size 1200 x 600 x 300 mm minimum mechanically strong and vermin and water proof the unit shall have two detachable doors suitable for operation on 3ph, 50Hz, 380/440 volts, AC supply with spring loaded latch locking with a key ribs should be provided inside the door , canopy apron and louvers ventilators shall be provided the combine energy mtr cum control panel board unit suitable for operation on 3ph, 50Hz, 380/440 AC supply shall be consisted etc,. completed T panel board shall be fabricated on single unit in the above components panel board for suitable pumpset above components panel board for suitable pumpset above 6.50 HP to 15.00 HP with star delta starter (MR)	No
12	Fabricating supplying and mounting MS box of 16 SWG suitable for floor / wall mounting, fully weather proof with provision for better hear description, (providing with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primes paint and finally finished with approved colour enamelled metal paint etc,. complete box of 21600 sq cm (P.NO-530, I.NO-39 b, BWSSB SR 13-14)	Sqm

Previous Measurment		Present Measurement			Total up-to date		Remarks
Qty	cost	Qty	Rate	Cost	Qty	cost	
–	–	2.00	1882.00	3764.00	2.00	3764.00	
–	–			0.00	0.00	0.00	
–	–	100.00	315.18	31518.00	100.00	31518.00	
–	–	100.00	412.00	41200.00	100.00	41200.00	
–	–	100.00	458.35	45835.00	100.00	45835.00	
–	–	100.00	484.10	48410.00	100.00	48410.00	
–	–	100.00	560.32	56032.00	100.00	56032.00	
–	–	100.00	600.49	60049.00	100.00	60049.00	
–	–	120.00	1364.75	163770.00	120.00	163770.00	
–	–	30.00	1133.00	33990.00	30.00	33990.00	
–	–	2.00	100.00	200.00	2.00	200.00	
–	–	~~30~~.00 23	150.00	~~4500~~.00 3450	~~30~~.00 23	~~4500~~.00 3450	
–	–	2.00	70600.00	141200.00	2.00	141200.00	
–	–	540.00	330.63	178540.00	540.00	178540.00	
–	–	110.00	84.80	9328.00	110.00	9328.00	
–	–	1200.00	164.29	197148.00	1200.00	197148.00	
–	–			0.00	0.00	0.00	
–	–	2.00	10000.00	20000.00	2.00	20000.00	
–	–	1.00	10000.00	10000.00	1.00	10000.00	
–	–	132000.00	0.34	44880.00	132000.00	44880.00	

Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)

no	Description of work	
13	Providing & Fixing of clamps set and borewell cap to the pump .	No's
14	Supplying & delivery of brand new best make non return valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark (50mm Gate wheel Valve.) (PWD SR 13-14, P.NO.XXIV, Sl.no, 673)	No's
15	Supplying and delivery of brand new best make Gate Valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark . 50mm Gate Valve for distributer pipeline. 50mm dia (PWD SR 13-14, P.NO.XXIV, Sl.no, 659)	No's
16	KSRB 13 6 3 6 Providing and fixing in position brass gate valve with CI wheel of approved quality (Screwed end) 50mm nominal bore including cost of all materials labour and HOM of equipments with all lead complete as per specifications specification No KBS 13.2.6/13 3 (page No 97 item no 13.37)	No's
17	Providing and fixing of 50mm GI bend to motor (PWD SR 13-14, P.NO.XXXVIII GI FITTINGS TABLE)	No's
18	Providing and fixing of 50mm GI Nipple to motor (PWD SR 13-14, P.NO.XXXVIII GI FITTINGS TABLE)	No's
19	Providing and fixing of 50mm GI union to the motor ((PWD SR 13-14, P.NO.XXXVIII GI FITTINGS TABLE)	No's
20	Labour charges for erection of new /repaired submersible pumpset along with GI pipes (32/50mm) cable (new submersible pumpset if required will be supplied by the department free of cost and released pump set should be handed over to department) including transportation (each length = 6.00m) (P.No - 564, I.No - 3, BWSSB SR 13-14)	Per Length
21	Erection of combined panel board meter board with all necessary materials and labour including providing CC 1:3:6 foundation bed etc,. Complete for basement out door type. (MR)	No's
22	Supplying and fixing miniature circuit breakers/isolators on existing MCB distribution boards using necessary fixing materials and wiring complete as required, 5 to 30 amps triple pole with all leadn and lift loading unloading and labour charges etc complete as per specifications Group A (P No 6.15.9/P.No 54 Ele Sr 2014-15)	No's
23	Supplying and laying of L.T.U.G Cable having aluminiumconductor PVC insulated shethed galvanised steel wire/ steel tape armoured cable with PVC outer sheathing 1.1 KV class 4 core 16 sqmm cable (confirming to IS 1554) (P.NO - 553, I.NO - 10 (d), BWSSB SR 13-14)	Mtr
24	Digging of trenches of 0.6mm x 0.50 Mtrs wide refilling the trench to the required ground level and consolidating etc,. Complete as per Civil SR KSRB 1 2 P-7 P No 68/ I No 7.93 KPWD Electrical Sr 2014-15	Mtr
25	Supplying and fixing of class A (meadium duty) GI pipe of wall thickness not less than 3.25mm on pole / wall/ drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class P No 69/ I No 15-A KPWD Electrical SR 2014-15	Mtr
26	Supplying and fixing wiring earth electrode for grounding conduits, IC cutouts and other equipments on the meter board using 40mm dia 2.90 mm thick GI pipe 2.5 mtr long buried in a pit,/ the pit should be filled with equal proportion of salt and charocal 150 mm alround the pipe to complete depth the connections from the pipe to the conduit etc,. is to be established though GI wire of size as per ISI specification 7.3.3 of ISI 732 using 12mm dia boalts, nuts washers and checknuts etc,. the pipe shall have 16 through holes of 122mm dia PWD Electrical Sr 1999-2000 P 62 I No 7 KPWD Electrical SR 2014-15	No's
27	Supply and fixing LT cast iron pot heads suitable for 1.1 KV class 16 sqmmUG cable filled with necessary bitumen/ insulating compound complete with terminals, clamps, bolts nuts and washers etc,P No 69, I No 7.132 KPWD Electrical SR 2014-15	No's
28	Supplying and fixing one of the fuse cut outs having porcelain base appproved quality on the existing wooden block and wiring complete 16amps	No's
29	Supplying shunt trip capacitors confirming to IS 2834 3 phase 400/440 volts grade for power factor improvement of rotating machinery capacitor in KVAR rating Nos 2 KVAR Capacity with all lead and lift loading unloading and labour charges etc complete as per specification (P No 54 /S No 6.13 KPWD Sr 2013-14)	No's
30	Providing and fixing Gun Material whel valve confirming to IS specification of approved make as per direction including all lead and lift etc complete 50mm dia (P No 94, I No 13.79.6 PWD SR 2015-16)	No's

Previous Measurment		Present Measurement			Total up-to date		Remarks
Qty	cost	Qty	Rate	Cost	Qty	cost	
–	–	2.00	450.00	900.00	2.00	900.00	
–	–			0.00	0.00	0.00	
–	–	2.00	1600.00	3200.00	2.00	3200.00	
–	–	5.00	1600.00	8000.00	5.00	8000.00	
–	–			0.00	0.00	0.00	
–	–	2.00	1145.00	2290.00	2.00	2290.00	
–	–	5.00	1145.00	5725.00	5.00	5725.00	
–	–			0.00	0.00	0.00	
		2.00	1612.44	3225.00	2.00	3225.00	
		5.00	1612.44	8062.00	5.00	8062.00	
				0.00	0.00	0.00	
		2.00	219.00	438.00	2.00	438.00	
		4.00	219.00	876.00	4.00	876.00	
				0.00	0.00	0.00	
		2.00	104.30	209.00	2.00	209.00	
		30.00	104.30	3129.00	30.00	3129.00	
				0.00	0.00	0.00	
		2.00	223.70	447.00	2.00	447.00	
		4.00	223.70	895.00	4.00	895.00	
		110.00	90.64	9970.00	110.00	9970.00	
		2.00	475.00	950.00	2.00	950.00	
		2.00	1125.79	2252.00	2.00	2252.00	
		80.00	169.95	13596.00	80.00	13596.00	
		80.00	109.18	8734.00	80.00	8734.00	
		6.00	355.35	2132.00	6.00	2132.00	
		2.00	2808.81	5618.00	2.00	5618.00	
		2.00	288.40	577.00	2.00	577.00	
		2.00	288.40	577.00	2.00	577.00	
		2.00	1350.00	2700.00	2.00	2700.00	
				0.00	0.00	0.00	

Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Bangalore

sl no	Description of work	Unit
31	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out on not more than 2 pieces and fixing the same to wall using tapered inverted wooden plugs screws etc., P No 51/I No 6.66 KPWD Electrical Sr 2014-15)	No's
32	KSRB 2-2.2 Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications No KBS 2.1(b) 2.3.5 No 5 Item No 2.4/PWD Sr 2015-16	Cum
33	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc., **Page No.12 item No.3.4.2 b PRED SR 2010-11.**	Rmtr
	75 mm dia 6 KSC PVC pipe	
	63mm dia 6KSC	
34	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes Confirming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threated fittings, this includes jointing of pipes and fittings with one step solvent cement trenching, refilling and testing of joints complete (external work) 40mm nominal OD pipes (page No 104 item no 13.87 5) for pipe line	Rmtr
35	Providing and installation at site of work 20mm GI pipes including cost of pipes and specials and labour incluidng lowering into trenches, laying ture to line, complete as per direction of Engineer in charge for public taps for motors/pipeline (P.No.90, I No.13.11 PWD SR 15-16)	Mtr
36	KSRB 2-4: Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications (P.NO - 6, I.NO - 2.11, PWD SR 15-16)	Cum
37	50 mm dia GI Union	No's
38	50mm dia GI Nipple	No's
39	50mm dia GI NRV	No's
40	50mm dia GI Elbow	No's
		TOTAL

Certificates:

1 The above work is done satisfactorily and complete in all respect.
2 There is no department Material issue for the above work.
3 This works comes under BBMP Limit.

Previous Measurment		Present Measurement			Total up-to date		Remarks
Qty	cost	Qty	Rate	Cost	Qty	cost	
		2.00	1617.56	3235.00	2.00	3235.00	
		2.00	1617.56	3235.00	2.00	3235.00	
		2.00	311.58	623.00	2.00	623.00	
		~~1350.00~~ 1337.64	283.02	~~382077.00~~ 378578	~~1350.00~~ 1337.64	~~382077.00~~ 378578	
				0.00	0.00	0.00	
		~~500.00~~ 498	157.00	~~78500.00~~ 78186	~~500.00~~ 498	~~78500.00~~ 78186	
		~~500.00~~ 500	112.00	56000.00	500.00	56000.00	
		1500.00	291.60	437400.00	1500.00	437400.00	
		116.00	207.87	24113.00	116.00	24113.00	
		1350.00	76.32	103032.00	1350.00	103032.00	
		15.00	223.70	3356.00	15.00	3356.00	
		15.00	173.00	2595.00	15.00	2595.00	
		15.00	690.00	10350.00	15.00	10350.00	
		15.00	190.00	2850.00	15.00	2850.00	
				~~2282212~~		**~~2282212~~**	
				2277683		2277683 **0**	
	8% KRIDL Service Charge			182214 **182577**		182214 **182577**	
	Total			**~~2464789~~**		**2464789**	

2459897.00 2459897.00

Asst. Exe. Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore